

INTEGRATED INTERNAL POWER SUPPLY

ABSTRACT OF THE DISCLOSURE

5 Integrated internal power supply with a power inlet connector arranged to protrude through a housing of an end-use equipment, and having internal circuitry potted in a thermally conducting material. A vent path is provided so that a component such as a large capacity electrolytic capacitor can vent surplus fluid, e.g. electrolyte and/or gas. The power supply has a standardized 'footprint' and may be mounted directly onto a circuit board in the end-use equipment. The
10 supply is preferably assembled by mounting a board holder on an internal circuit board, mounting a clip on the power inlet connector, mounting the internal circuit board in a case, plugging a vent hole in the internal circuit board, filling the case with potting compound, baking the power supply, preferably at 100°C for 10 minutes, and then unplugging the vent hole.

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